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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference						
PCT038288 FOR FURTHER A		CTION See Form PCT/IPEA/416				
International application No. International filing dat		(day/month/year)	Priority date (day/month/year)			
PCT/CN03/00522 01.JULY.200			02.SEP.2002 (02.09.02)			
International Patent Classification (IPC) or	national classification and	d IPC				
IPC ⁷ C07K	7/08 ; C07K14/46; A6	51K38/00; A61P31	./00; A61P35/00			
A						
Applicant SHANGHAI HI-TECH UNITED BIO-TECHNOLOGICAL RESEARCH &DEVELOPMENT CO., LTD. et al.						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of 4 sheets, including this cover sheet.		this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:						
a. 🔲 (sent to the applicant and to	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications related	ting to the following items	5:				
Box No. I Basis of the re	⊠ Box No. I Basis of the report					
☐ Box No. II Priority	Sox No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
citations and explanations supporting such statement						
☐ Box No. VI Certain documents cited						
☐ Box No. VII Certain defects in the international application						
Box No. VIII Certain obser	Box No. VIII Certain observations on the international application					
Date of submission of the demand		Date of completion	of this report			
17 February. 2004 (17. 02. 2004)		0	2.March.2005 (02.03.2005)			
Name and mailing address of the IPEA/		Authorized officer				
6 Xitucheng Rd., Jimen Bridge, Haidian I 100088 Beijing, Chi	-		WEI Chunbao			
		Telephone No. 86-	-10-62085065) ==			
orm PCT/IPEA/409 (cover sheet) (January 2004)						





Box No.	I	Basis of the report	
		ard to the language, this report is based on the international application in the indicated under this item.	e language in which it was filed, unless
		s report is based on translations from the original language into the following ich is the language of a translation furnished for the purposes of:	language,
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
to t	he re	gard to the elements of the international application, this report is based on (neceiving Office in response to an invitation under Article 14 are referred to in to this report):	
\boxtimes		e international application as originally filed/furnished	
. 🗆		e description:	as asisisally filed/formiched
	_	ages received by this Au	as originally filed/furnished hority on
		ages * received by this Au	
	4 1	claims:	
لسا		ages	as originally filed/furnished
			(together with any statement)under Article 19
	p	ages ereceived by this A	uthority on
	P	pages * received by this A	uthority on
	the	e drawings:	
	p	pages	as originally filed/furnished
	p	pages * received by this Au	thority on
	P	pages * received by this Au	thority on
凶	as	equence listing and/or any related table(s) - see Supplemental Box Relating t	o Sequence Listing.
, _	1 ~		
3. ∟] 11	he amendments have resulted in the cancellation of:	
	[the description, pages	
	_	the claims, Nos.	
	L	the drawings, sheets/figs	
	ı	the sequence listing (specify):	
	[any table(s) related to sequence listing (specify):	
4. [nis report has been established as if (some of) the amendments annexed to the nice they have been considered to go beyond the disclosure as filed, as indica	-
	[the description, pages	
	[the claims, Nos.	
	[the drawings, sheets/figs	
	ļ	the sequence listing (specify):	
	١	any table(s) related to sequence listing (specify):	
*	If iter	m 4 applies, some or all of those sheets may be marked "superseded."	



International application No. PCT/CN03/00522

citations and explanations supporting such statement					
Statement:					
Novelty (N)	Claims	1-18	YES		
	Claims		NO		
Inventive step (IS)	Claims	1-18	YES		
	Claims		NO		
Industrial applicability (IA)	Claims	1-18	YES		
	Claims		NO		

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: WO0009553 A2, ((BION-N) BIONEBRASKA INC, et al);

D2: WO9503325 A1, ((REGC) UNIV CALIFORNIA, et al);

D3: US 6071879 A ((OKLA) UNIV OKLAHOMA STATE);

1. Novelty (Article 33(2)PCT)

The embodiments of claims 1-18 of the present invention are not the same as the prior art. Claims 1-18 are novel under Article 33(2). PCT.

2. Inventive step (Article 33(3)PCT)

These claims 1-18 have inventive steps compared with the D1,D2 and D3, Which would have been not obvious to one of ordinary skilled in the art.

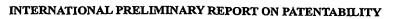
Claims 1-18 of the present application have inventive steps, meet the requirement of Article 33(3) PCT.

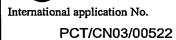
3. Industrial applicability (Article 33(4)PCT)

The present synthetic antibiotic peptides can be used for preparing the medicines for treating the diseases induced by bacteria, virus and fungi, and anticancer drugs.

Therefor, claims 1-18 meet the criteria set out for industrial applicability in Article 33(4) PCT.

Form PCT/IPEA/409 (Box No. V) (January 2004)





Supplemental Box Relating to Sequence Listing				
Continuation of Box No. I, item 2:				
1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this report was established on the basis of:				
a. type of material				
a sequence listing				
table(s) related to the sequence listing				
b. format of material				
in written format				
in computer readable form				
c. time of filing/furnishing				
contained in the international application as filed				
filed together with the international application in computer readable form				
furnished subsequently to this Authority for the purposes of search and/or examination				
received by this Authority as an amendment * on				
2. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
3. Additional comments:				
*If item 4 in Box No.I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, may be marked "superseded."				